

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/04647

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ B23K33/00, 26/42, 101:30, B60B21/00, B21D53/30

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ B23K33/00, B60B21/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho	1922-1996	Jitsuyo Shinan Toroku Koho	1996-2003
Kokai Jitsuyo Shinan Koho	1971-2003	Toroku Jitsuyo Shinan Koho	1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
<u>X</u> Y	JP 9-47887 A (Tokai Rubber Industries, Ltd.), 18 February, 1997 (18.02.97), Claims; column 2, lines 35 to 38; column 3, lines 9 to 14, 47 to column 4, line 1; Figs. 2 to 5 (Family: none)	<u>1</u> 2
<u>Y</u> A	JP 3-275289 A (Honda Motor Co., Ltd.), 05 December, 1991 (05.12.91), Page 3, upper left column, lines 1 to 11; Figs. 1a to 1c (Family: none)	<u>2</u> 1

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

* Special categories of cited documents:
 "A" document defining the general state of the art which is not
 considered to be of particular relevance
 "E" earlier document but published on or after the international filing
 date
 "L" document which may throw doubts on priority claim(s) or which is
 cited to establish the publication date of another citation or other
 special reason (as specified)
 "O" document referring to an oral disclosure, use, exhibition or other
 means
 "P" document published prior to the international filing date but later
 than the priority date claimed

"T" later document published after the international filing date or
 priority date and not in conflict with the application but cited to
 understand the principle or theory underlying the invention
 "X" document of particular relevance; the claimed invention cannot be
 considered novel or cannot be considered to involve an inventive
 step when the document is taken alone
 "Y" document of particular relevance; the claimed invention cannot be
 considered to involve an inventive step when the document is
 combined with one or more other such documents, such
 combination being obvious to a person skilled in the art
 "&" document member of the same patent family

Date of the actual completion of the international search
 10 July, 2003 (10.07.03)

Date of mailing of the international search report
 22 July, 2003 (22.07.03)

Name and mailing address of the ISA/
 Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.